

Research Notes

Watershed Modeling System License Renewal Agreement TPF-5(265)

Lead Agency: Federal Highway Administration (FHWA)

Partners: CA, IA, KY, MN, NY, PA, TX

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Program Steering Committee (PSC): Design and Construction

Project Title: Enhancements to the FHWA-FST2DH Model for Simulating Two-dimensional Depth-averaged Flow and Sediment Transport TPF-5(248)

Project Number: P758

Task Title: Watershed Modeling System License Renewal Agreement

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WHAT IS THE NEED

The Watershed Modeling System (WMS) is an integrated hydrologic modeling program that creates a digital representation of a watershed and computes geometric and other model parameters based on topography and other web-based data acquisition tool. It includes a graphical user interface (GUI) to assist with preparing, editing, and running these models as well as viewing the model results.

WMS is being used by many state DOTs to take advantage of the ever growing amount of terrain and land use data being made available to them to develop accurate and reproducible hydrologic models.

In the past, FHWA has been the sole source of funds to pay for the license agreement with the program developer, Aquaveo, LLC. The current licensing agreement provides full access to the hydrologic and hydraulic modeling capabilities required by most State Departments of Transportation.

WHAT ARE WE DOING

The Federal Highway Administration will serve as the coordinator for this pooled-fund project to participate in renewing the free WMS license to State DOT employees.

WHAT IS OUR GOAL

To re-new the WMS license agreement for another five years and continue to provide licenses of the software to all Federal and State Department of Transportation employees.

WHAT IS THE BENEFIT

To obtain the WMS license agreement allows us to distribute the most recent version of the Watershed Modeling System, WMS Version 9.0. This version of the software has an interface to our most recent version of HY12 which is our storm drain analysis software and now allows the states to have access to a graphical user interface for this piece of software.

WHAT IS THE PROGRESS TO DATE

The current licensing agreement provides full access to the hydrologic and hydraulic modeling capabilities required by most State Departments of Transportation.